COPY

1801 Century Park West
Los Angeles, CA 90067
Tel: 310-552-6599
Fax   310-553-7068

Mediagig Ventures

Fax

To:	Mark Litvack	From:	Dick Sowa (for Rob
	MPAA, Encino, CA		Schumann)
Fax	1-818-382-1797	Pages:	Three, including this page
Phone:		Date:	Dec 6, 1999
Re:	Cinea Linux Review	CC:	Rob Schumann

☐ Urgent   X For Review   ☐ Please Comment   ☐ Please Reply   ☐ Please Recycle

Dear Mark,

I am transmitting a letter to you from Rob Schumann.   I am
on the Board of Advisors for Cinea,   and Rob is en route to
Korea and he asked if I could fax this letter to you.

If you have any questions,   please contact me or Rob can be
reached at his e-mail   rob.schumann@cinea.com.

Regards,

Dick Sowa

MPAA 001096

Cinea, LLC

12953 Oak Lawn Place
Herndon, VA 20171
(703) 348-0810
rob schumann@cinea.com

December 6, 1999

Mark Litvack
Chief Counsel
Motion Picture Association of America
15503 Ventura Blvd
Encino, CA 91436

Dear Mr. Litvack

I would like to thank you for selecting Cinea to provide a review of the Linux development archives relative to the DVD CSS development activities. As of this point we have completed reviewing approximately 25% of the material which your office forwarded to us. I anticipate that we should complete our full review of the materials by 12/17/99. Note that I have had access to the DVD Video specifications in the past, but have never seen, nor had access to, the CSS specifications.

As you requested I have outlined below the involvement of Derek Fawcus in the Linux DVD development effort, specifically the efforts to enable decoding of CSS protected content. Please note these results are preliminary and are based only on a partially completed review of the Linux DVD development archive material which your office acquired and forwarded to Cinea. Specifically the June through October LinuxDVD archives, the June through July Livid-Dev archives and portions of the August Livid-Dev archive.

It is important to note that breaking CSS involved two distinct steps. The first step was determining how to initiate a secure conversation with a CSS enabled DVD drive. This step is necessary before the drive will release CSS encrypted content for reading by a host computer. The second step is decrypting the CSS encrypted content.

This first step was largely completed by late July based on the release of code by a Johan Addis on 7/13/99. In his postings, Mr. Addis claims to have had this portion of the CSS system broken since the beginning of 1999. Mr. Addis never discloses why he had been working on this effort, but does say it was accomplished using Reversing Engineering of a PC based DVD playback program. Once Mr. Addis released the code, Mr. Fawcus was a principal participant in the debugging, 'c' conversion and testing of this drive enabling code. Essentially Mr. Addis provided the blueprint for the first step and Mr. Fawcus was one of the primary builders. No additional information on Mr. Addis is available at this time.
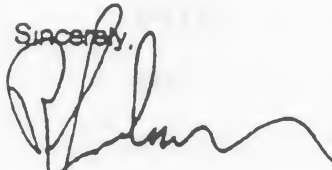
● Page 2

December 6, 1999

Once the first step had been completed several of the participants in the discussion groups, including Mr. Fawcus, focused their attention on the breaking of the content keys themselves. This second stage was just beginning in earnest for this group in August and my review has not yet proceeded sufficiently to fully characterize this effort, although Mr. Fawcus appears to have been heavily involved.

To summarize, Mr. Fawcus, as he is known in the postings, was an active participant in the work on implementing DVD on Linux. During the period of postings examined, Mr. Fawcus was involved in the writing, releasing, and testing of various parts of DVD playback, including the code which allowed for the partial access to CSS protected content. Based on the materials available, it appears that Mr. Fawcus had no direct access to CSS or DVD specifications in this effort, although in a July 31st posting he mentions that he got a "major hint" from somebody on how to decode the VOB files (the second step).
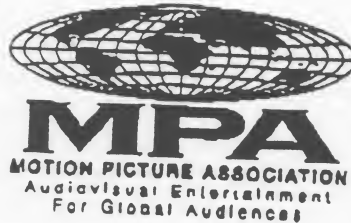
Sincerely,

Robert Schumann
President and CEO

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Encino, CA 91436

TEL: (818) 995-6600
FAX: (818) 382-1797

VIA FACSIMILE
FAX SHEET CONFIDENTIALITY STATEMENT

DATE: Monday, December 06, 1999

TO:
Nathan Knight
Dara MacGreevy
Ken Jacobsen
Mikhail Reider
Brad Hunt
Emily Kutner
Mark Litvack

FAX: Speed Dial

FROM:
Ric Hirsch
MPA
Los Angeles

Number of pages: 4 (including cover)

MPAA 001100

RE: Cinea Linux Review